

CONFIDENTIAL

21 January 1965

MEMORANDUM FOR THE RECORD

SUBJECT: Evaluation of Variable Magnification Tracing Projector,
Bausch and Lomb, Inc.

1. The prototype Variable Magnification Tracing Projector has been tested in PID, PD and PAG. It was received enthusiastically by both PID and PD. If the magnification can be increased, PAG will also be interested in the instrument. However, no written comments have been received from PAG.

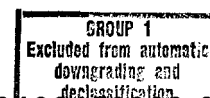
2. The projector is very satisfactory in most respects. No apparent distortion was detectable in the projected image at any of the magnifications and the illumination was quite sufficient. Stability of the instrument, which had been a source of concern during development, is excellent.

3. Several constructive suggestions for improving the projector have been made. These are:

- a. Change the marking system for identifying the lens settings by using the letters, H, M and L for high, medium and low magnification.
- b. Install a simple locking device on the vertical shaft that supports the condenser assembly to positively hold the condenser in position after the condenser is focused.
- c. Improve the film hold down platen mechanism to provide a positive lock position with an easy release capability.
- d. Design a system for holding $9\frac{1}{2}$ " film reels that will provide easy horizontal movement of the reel arms and allow rapid positioning of any portion of $9\frac{1}{2}$ " film in the film gate.
- e. Investigate the possibility of substituting a higher power lens (up to 30X) in place of the lowest power lens now in the instrument.

These suggested modifications have been discussed with Bausch and Lomb, and feasibility and cost information will be determined soon.

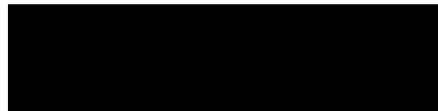
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4. Production model quotations will be furnished by Bausch and Lomb after a decision is made on the modifications. Operational units in NPIC will be canvassed for joint procurement and the instrument is to be exhibited at the next Joint Procurement Meeting.

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Development Branch, P&DS

Distribution:

Orig. - Project File
1 - Chrono File

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